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- ## 1 A common data management infrastructure for adaptive algorithms for PDE solutions



Manish Parashar, James C. Browne, Carter Edwards, Kenneth Klimkowski

November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: ACM Press

Full text available: pdf(160.93 KB) Additional Information: full citation, abstract, references, citings

This paper presents the design, development and application of a computational infrastructure to support the implementation of parallel adaptive algorithms for the solution of sets of partial differential equations. The infrastructure is separated into multiple layers of abstraction. This paper is primarily concerned with the two lowest layers of this infrastructure: a layer which defines and implements dynamic distributed arrays (DDA), and a layer in which several dynamic data and programming ab ...

Keywords: HP-adaptive finite elements, adaptive mesh-refinement, distributed dynamic data structures, fast multipole methods, parallel adaptive algorithm, problem solving environment

- ## 2 Adaptive distributed data management with weak consistent replicated data



Richard Lenz

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: coherency control, consistency island, distributed data management, need-to-know principle, weak consistency replication

- ### ³ An adaptive view element framework for multi-dimensional data management



John R. Smith, Chung-Sheng Li

Proceedings of the eighth international conference on Information and knowledge management

Publisher: ACM Press

Full text available: pdf (1.02 MB) Additional Information: full citation, abstract, references, index terms


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1 [A multi-version data model for executing real-time transactions in a mobile](#)


[environment](#)

Kam-Yiu Lam, Guo Hui Li, Tei-Wei Kuo

 May 2001 **Proceedings of the 2nd ACM international workshop on Data engineering for wireless and mobile access**

Publisher: ACM Press

 Full text available: pdf(82.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the significant advances in mobile computing technology, there is an increasing demand for various mobile applications to process transactions in a real-time fashion. When remote data access is considered in a mobile environment, data access delay becomes one of the most serious problems in meeting transaction deadlines. In this paper, we propose a multi-version data model and adopt the relative consistency as the correctness criterion for processing of real-time transactions in a mobile ...

2 [Issues in implementing a real time embedded Data Base Management System in](#)


[Ada](#)

David Bunting, Leonard Bass

 March 1986 **Proceedings of the third annual Washington Ada symposium on Ada: Ada use in focus : practical lessons in perspective**

Publisher: ACM Press

 Full text available: pdf(901.52 KB) Additional Information: [full citation](#), [references](#)

3 [Graphic time-sharing with real-time data bases](#)



Jesse B. Hillman

August 1969 **Proceedings of the 1969 24th national conference**

Publisher: ACM Press

 Full text available: pdf(770.17 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This system is being developed to process flight test data for the McDonnell-Douglas Corporation to significantly reduce flight test development and certification time and to reduce data processing costs. It is a time-sharing system using graphic cathode ray tube terminals. The system consists of nine processors: a Sigma 7 central processing unit, three general-purpose input/output processors, two special telemetry decommutator channels and three Sigma 2 central processor units. < ...